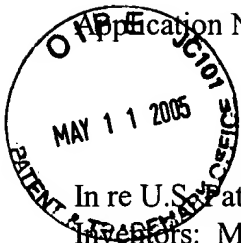


1 PW



Application No. 09/054,986: Group Art Unit 1772

SC-5285

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re U.S. Patent No.: 6,777,043 )  
Inventors: M. Stavnes et al. )  
Serial No.: 09/054,986 )  
Issued: August 17, 2004 )  
For: Fuse Tube and Method )  
of Manufacture Thereof )  
Group Art Unit: 1772 )  
Examiner: S. Nolan )  
Attorney Docket: SC-5285 )

Certificate  
MAY 13 2005  
of Correction

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

*ATTN: CERTIFICATE OF CORRECTIONS BRANCH*

**REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO 37 C.F.R. § 1.322**

Dear Sir:

Transmitted herewith is a Certificate of Correction for U.S. Patent 6,777,043 issued August 17, 2004. Upon reviewing the claims, the patentee noted that the following clerical errors were made by the Patent and Trademark Office which should be corrected by substituting the following for claim 1 as issued at column 6, lines 51-65:

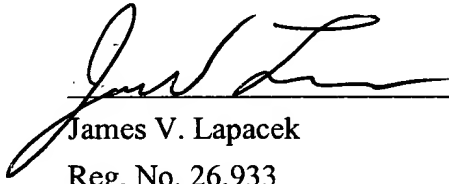
1. A method of fabricating an arc-quenching tube via the winding of a first fiber in one or more winding passes and the subsequent forming of a predetermined taper within the arc-quenching tube wherein the predetermined taper defines the desired minimum wall thickness of the tube, the arc-quenching tube having a desired minimum wall thickness after fabricating so as to provide the expected arc-quenching over the expected use of the arc-quenching tube, the method comprising winding the arc-quenching tube such that the first fiber lays flat and does not overlap in each of the one or more winding passes whereby a predetermined suitable uniformity is achieved in the thickness of the tube, the method further comprising forming a predetermined taper within the arc-quenching tube wherein the predetermined taper defines the desired minimum wall thickness of the tube, the predetermined suitable uniformity being such that variations in the thickness of the tube are significantly less than the desired minimum wall thickness so as not to significantly impact or interfere with the desired minimum wall thickness defined by the predetermined taper.

MAY 16 2005

It appears that the issued claim 1 was taken from the Examiner's comments in the attachment to the Notice of allowability mailed April 22, 2004; specifically, it appears that claim 1 was erroneously printed from the Examiner's summary of claim 36 at item 6 in the Reasons for Allowance. Further, this was not an Examiner's amendment but merely a summary of the allowed claim 36. The correct claim 1 to have been issued is found in the response of February 3, 2004 setting forth claim 36 (previously presented). Copies of the Notice of Allowability and the Response entered on February 3, 2004 are enclosed.

Since the clerical errors for which a Certificate of Correction is sought were a result of a Patent and Trademark Office mistake, no fee is due (35 U.S.C. § 254).

Respectfully submitted,



James V. Lapacek

Reg. No. 26,933

Attorney for Applicants

S&C Electric Company  
6601 N. Ridge Blvd.  
Chicago, IL 60626  
Telephone: (773) 338-1000 x2497  
Facsimile: (773) 381-4936

May 9, 2005

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,777,043  
DATED : Aug. 17, 2004  
INVENTOR(S) : M. Stavnes et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

1. A method of fabricating an arc-quenching tube via the winding of a first fiber in one or more winding passes and the subsequent forming of a predetermined taper within the arc-quenching tube wherein the predetermined taper defines the desired minimum wall thickness of the tube, the arc-quenching tube having a desired minimum wall thickness after fabricating so as to provide the expected arc-quenching over the expected use of the arc-quenching tube, the method comprising winding the arc-quenching tube such that the first fiber lays flat and does not overlap in each of the one or more winding passes whereby a predetermined suitable uniformity is achieved in the thickness of the tube, the method further comprising forming a predetermined taper within the arc-quenching tube wherein the predetermined taper defines the desired minimum wall thickness of the tube, the predetermined suitable uniformity being such that variations in the thickness of the tube are significantly less than the (CONTINUED - PAGE 2)

### MAILING ADDRESS OF SENDER:

JAMES V. LAPACEK c/o S&C Electric Co.  
6601 N. Ridge Blvd.  
Chicago, Illinois 60626

### PATENT NO. \_\_\_\_\_

No. of additional copies



This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

MAY 16 2005

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,777,043

DATED : Aug. 17, 2004

INVENTOR(S) : M. Stavnes et al.

It is certified that error appears in the above-identified patent and that said Letters Patent  
is hereby corrected as shown below:

Claim 1. continued from page 1:

desired minimum wall thickness so as not to significantly impact or interfere with the desired minimum wall  
thickness defined by the predetermined taper.

**MAILING ADDRESS OF SENDER:**

JAMES V. LAPACEK c/o S&C Electric Co.  
6601 N. Ridge Blvd.  
Chicago, Illinois 60626

**PATENT NO.** \_\_\_\_\_

No. of additional copies



This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**MAY 16 2005**

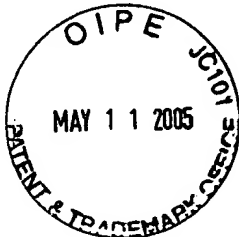


# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 04/22/2004  
JAMES V LAPACEK  
S&C ELECTRIC COMPANY  
6601 NORTH RIDGE BOULEVARD  
CHICAGO, IL 60626



EXAMINER	
NOLAN, SANDRA M	
ART UNIT	PAPER NUMBER
1772	
DATE MAILED: 04/22/2004	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/054,986	04/03/1998	MARK W. STAVNES	SC-5285	3346

TITLE OF INVENTION: FUSE TUBE AND METHOD OF MANUFACTURE THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/22/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.  
See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



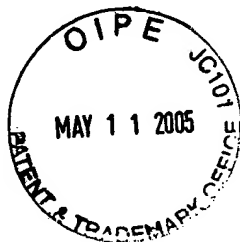
# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/054,986	04/03/1998	MARK W. STAVNES	SC-5285	3346

7590 04/22/2004

JAMES V LAPACEK  
S&C ELECTRIC COMPANY  
6601 NORTH RIDGE BOULEVARD  
CHICAGO, IL 60626



EXAMINER

NOLAN, SANDRA M

ART UNIT PAPER NUMBER

1772

DATE MAILED: 04/22/2004

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

# Notice of Allowability

Application No.

09/054,986

Examiner

Sandra M. Nolan

O I P E  
MAY 11 2005

Applicant(s)

STAVNES ET AL.

Art Unit

1772

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the 03 February 2004 response.
2. ☒ The allowed claim(s) is/are 36 and 39.
3. ☒ The drawings filed on 21 February 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

Art Unit: 1772



## **ATTACHMENT TO NOTICE OF ALLOWABILITY**

### ***Claims***

1. Claims 36 and 39 are pending and allowed. All others have been cancelled.

### ***Related Application***

2. US SN. 10/729585 is related to this case. At this writing, it claims tubes, not methods for making them.

### ***Disclosure/Reference Citation Listings***

3. There are no information disclosure statements in the eDAN file for this case.
4. Signed copies of all PTO 892's found in eDAN for this application are enclosed.

### ***Reasons for Allowance***

5. The following is an examiner's statement of reasons for allowance:
6. Claim 36 is the sole base claim. It can be summarized as follows:

Claim 36 covers a method of making an arc-quenching tube comprising the steps:

-winding the tube such that the first fiber layer lays flat and does not overlap in each of the one+ winding passes used to make the tube so that a predetermined suitable uniformity of thickness is achieved, and

-forming a predetermined taper within the tube wherein the taper defines the desired minimum wall thickness of the tube, wherein the taper defines the minimum wall thickness of the tube and the uniformity is such that variations in the thickness of the tube are significantly less than the desired



Art Unit: 1772

minimum wall thickness so as not to significantly impact on or interfere with the desired minimum wall thickness defined by the predetermined taper.

7. None of the prior art of record teaches or suggests a method of making an arc-quenching tube that employs all of the features recited in claim 36.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Conclusion**

Any inquiry concerning this communication should be directed to Sandra M. Nolan, whose telephone number is 571/272-1495. She can normally be reached on Monday through Thursday, from 6:30 am to 4:00 pm, Eastern Time. If attempts to reach the examiner are unsuccessful, her supervisor, Harold Pyon, can be reached at 571/272-1498.

The fax number for patent application documents is 703/872-9306.



S. M. Nolan  
Primary Examiner  
Technology Center 1700

SMN/smn  
09054986(20040414)

**SANDRA M. NOLAN**  
**PRIMARY EXAMINER**

Application No. 09/054,986: Group Art Unit 1772

SC-5285



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant: M. Stavnes et al. )  
)  
Serial No.: 09/054,986 ) I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING  
) DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST  
Filed: April 3, 1998 ) CLASS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER  
) OF PATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231  
For: Fuse Tube and Method ) ON: 1/28/2004  
of Manufacture Thereof ) NAME: JAMES V. LAPALEX  
)  
Group Art Unit: 1772 ) SIGNATURE [Signature]  
) DATE: 1/28/2004  
Examiner: S. Nolan )  
)  
Attorney Docket: SC-5285 )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

AMENDMENT

Dear Sir:

In response to the Office Action mailed November 14, 2003, please amend the above-identified application as follows:

AMENDMENTS TO THE CLAIMS:

Claims 1-35 (Canceled)

36 (Previously presented): A method of fabricating an arc-quenching tube via the winding of a first fiber in one or more winding passes and the subsequent forming of a predetermined taper within the arc-quenching tube wherein the predetermined taper defines the desired minimum wall thickness of the tube, the arc-quenching tube having a desired minimum wall thickness after fabricating so as to provide the expected arc-quenching over the expected use of the arc-quenching tube, the method comprising winding the arc-quenching tube such that the first fiber lays flat and does not overlap in each of the one or more winding passes whereby a predetermined suitable uniformity is achieved in the thickness of the tube, the method further comprising forming a predetermined taper within the arc-quenching tube wherein the predetermined taper defines the desired minimum wall thickness of the tube, the predetermined suitable uniformity being such that variations in the thickness of the tube are significantly less than the desired minimum wall thickness so as not to significantly impact or interfere with the desired minimum wall thickness defined by the predetermined taper.

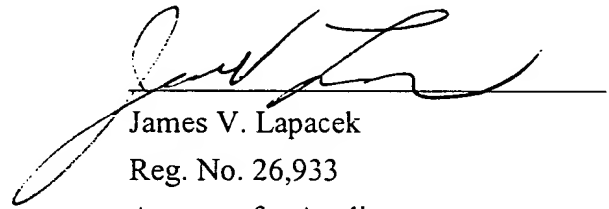
Claims 37-38 (Canceled)

Claim 39 (Original): The method of claim 36 further comprising the winding of a second fiber in one or more winding passes over the first fiber, the second fiber being different from the first fiber, the method further comprising winding such that the second fiber lays flat and does not overlap in each of the one or more winding passes whereby uniformity is achieved in the thickness of the tube.

REMARKS

The Examiner is respectfully requested to review this application which has been amended after a careful consideration of the Examiner's comments in the above-identified Office Action and the references cited therein. In that Office Action, the Examiner allowed claims 36 and 39 and rejected claims 24-26. Claims 24-26 have been canceled by this amendment without prejudice or disclaimer of the invention recited therein. Accordingly, claims 36 and 39 and this application are considered to be in a condition for allowance. A favorable action to that end and allowance of this application by the Examiner are respectfully requested. If the Examiner feels that clarification of any issue or comment herein would be helpful to facilitate prosecution of this application, the Examiner is respectfully requested to contact the undersigned attorney at the number listed below for a telephonic interview or to arrange a personal interview.

Respectfully submitted,



James V. Lapacek  
Reg. No. 26,933  
Attorney for Applicants

S&C Electric Company  
6601 N. Ridge Blvd.  
Chicago, IL 60626  
Telephone: (773) 338-1000 x2497  
Facsimile: (773) 381-4936

January 28, 2004